

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-168124

(43)Date of publication of application : 04.07.1995

(51)Int.Cl.

G02B 27/22

G02B 5/04

G02B 23/26

G03B 37/00

H04N 13/00

(21)Application number : 05-343462

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(22)Date of filing : 16.12.1993

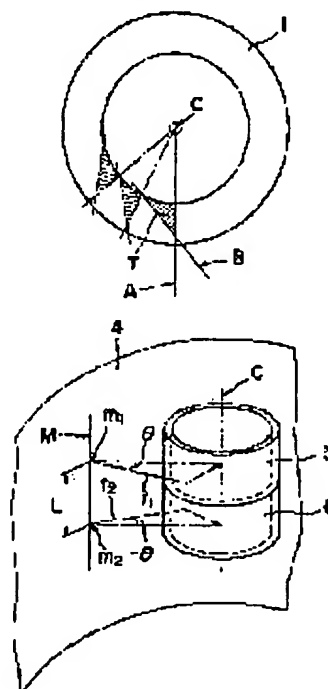
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(54) METHOD FOR PHOTOGRAPHING AND FORMING STEREOSCOPIC PICTURE OF ALL PERIPHERY OF HOLE WALL, PRISM FOR STEREOSCOPIC VISION AND DEVICE THEREFOR

(57)Abstract:

PURPOSE: To photograph the fixed direction stereoscopic picture of all the periphery of a hole wall in real time, which is obtained by changing the angle of view in a direction at right angle to an axis, in a state where one television camera is at the center position of the hole wall by introducing the picture of all the inner periphery of the hole wall to the inside of a prism from two different directions by a cylindrical prism arranged along the inner periphery and individually photographing the picture of all the periphery.

CONSTITUTION: The cylindrical linear Fresnel prism is used, where sawtooth shaped recessed grooves having the shape of a nearly right triangle pole on the inner peripheral surface side cut by a plane A including the center axis of a transparent cylindrical material 1 made of glass or plastic, and a plane B crossing the plane A in the thick part of the cylindrical material, always interposing the center axis C by one side with the plane A, and being parallel with the center axis C are continuously formed on all the periphery. The picture of all the inner periphery of the hole wall 4 is introduced to the inside of the cylindrical prisms 5 and 6 arranged on a circumference along the inner periphery of the hole wall 4 from two different directions θ and $-\theta$ by the prisms 5 and 6, and the respective pictures of all the periphery are individually photographed.



LEGAL STATUS

[Date of request for examination]

29.05.2000

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

3359137

[Date of registration]

11.10.2002

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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